AD-A	204 571	 .14~8 <del>9</del>
TO:	Information Services Branch	P 11
rROM:	Computer Products Support Group (Init) (Init)	(Init)
RE:	DOD SW DK-89/09. Announce in GRA&I (Report No.)	(1)

Priority Action is Required

Attac	ched
	Form NTIS 231.
B,	Form NTIS FCPC 01
A	NTIS 79
S	RDP (OF 272)
	Proof Listing
	Consigned Inventory Acquisition Form (Interagency Agreement Number and Split)

necessary pages.

Process for:	
K File (Data)	<pre>Documentation Diskette</pre>
H File (Software)	Documentation  Diskette

## Action

	Loan Document	,				
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### Remarks

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Computer Products Transmittal

DELETE	T NEW	REPLACE	CORRECTION				
NTIS COMPUTER PRODUCTS CATALOG DATA SHEET	1. ACCESSION NO.	2. CONTRIBUTION	IG AGENCY REPORT NO. 3. SUBJECT				
		DOD/SW/DK	-89/009				
	4. PRODUCT (circle one)  DATA FILE PUBLICATION						
DATA BASE REFERENCE SERVICE	E SO	FTWARE	MODEL, SIMULATION				
5. AGENCY, BUREAU, DIVISION, AND ADDRESS  Department of Army The Hydrologic Engineering Center, Corps of Engineers 609 Second Street Davis, California 95616							
6. PRODUCT NAME (Use agency name HECWRC, Flood Flow Freque Computer Program 723-X6-	ency Analysis						
7. DESCRIPTORS OF PRODUCT (Key  *Software, Statistical Hydrology Flood Flow Frequency Ana Computer Program Diskette							
8. DATES OF COVERAGE (For one-time reports, use as-of-date; for software, use date and release no.)  Version May 87  9. FILE SIZE IN NO. OF:							
Diskettes  10. AVAILABILITY STATEMENT - AGENCY NAME AND ADDRESS, ORDER NO., ETC. (If NTIS sells, leave blank)							
11. PRICE INFORMATION		Price	includes documentation:				
Price code: D01 \$	50.00						
No restrictions							
13. TECHNICAL REPRESENTATIVES			1				
HAME	TI'	TLE	PHONE NO.				
Harold Kubik Research Hydraulic Engineer (916) 551-1748							
14. DOCUMENTATION , EXPECTED AVAILABILITY DATE							
X AVAILABLE a	s:	NA					



NTIS COMPUTER PRODUCTS CATALOG DATA SHEET	
15. COMPUTER PRODUCT ABSTRACT	. 0/
HECURC performs frequency computations of annual maximum flood peaks according the Water Resources Council "Guidelines for Determining Flood Flow Freque Bulletin 17B Software description: The software is written the FORTRAN programming language for implementation on IBM/ or compatible machines using the MS DOS 2.1 or higher operatives. Minimum memory required is 256 K. Math coprocessor (8087/80287/80387) is highly recommended but not required.	ording to ency, n in /PC ating
16. DATA FILE TECHNICAL DESCRIPTION	
The software is contained on 5½-inch diskette(s), double density (360K), compatible with the IBM/PC microcomputer. The diskettes are in the ASCII format.	•
17. SOFTWARE TECHNICAL DESCRIPTION  Software is written in;  Fortran X COBOL Basic Assembly Other (Specify)  Software requires;	
CPR Mfr. IBM PC Model(s) Operating system(s) MS/PC DOS 2.1  Minimum of 256 K bytes care. The following special features and/or additional requirements in hard	

required. SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE

SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

FORM NT15-231 (REV. 6-74)

BACK

One  $5\frac{1}{4}$ " floppy disk drive (360 KB or 1.2 MB). A 10 MB or larger hard disk is recommended. Math coprocessor (8087/80287/80387) is highly recommended but not

USCOMM- DC 9411-P74

## COMPUTER DISKETTE FILE PROPERTIES

01. Completion Date		02.Long Title 03. Short T			
Year Month Day		Flood Flow Frequency Analysis (for microcomputers)			
Consider Date		05. Subscription 06			07. Number of Diskettes
O4. Copying Date  Year Month Day		☐ Yes Ё <sup>K</sup> No		ow File placement	1
08. Submitting Organization a	nd Addr	ess	09. Te	chnical Contac	t (s) and Phone
Department of Army The Hydrologic Engineering Center Corps of Engineers 609 Second St. Davis, CA 95616  Harold Kubik (916) 551-1748					(916) 551-1748
10. Host Computer/Model		11. Memory Requir	ement	12. Langu	age/Format
IBM PC		360 K		FORTRAN/ASCII	
13. Diskette Size	14. [	Diskette Capacity		15.	Operating System/Version
3 1/2 5 1/4 Other	ЖX	к <sub>360К</sub> 🛮 <sub>720К</sub>		3 800K	
			_		S/PC DOS 2.1+
16. Number of Files	17. N	lumber of Records		18. Record L	ength
19. Documentation  on Diskette (File #  Paper Copy	_ )		<u> </u>		
20. Supplemental Information					
21. For Submitting Organization Use					

# INSTALLATION INSTRUCTIONS FOR MICROCOMPUTER VERSION OF HECWRC

This version of HECWRC (May 1987) will run on an IBM or compatible microcomputer that has the following:

- \* 256 Kilobytes (KB) of Random Access Memory (RAM)
- \* MS DOS 2.1 or greater
- \* One 5 1/4 inch floppy diskette drive (360 KB or 1.2 MB)
- \* A 10 Megabyte (or larger) hard disk is recommended
- \* A math coprocessor (8087, 80287, or 80387) is highly recommended, but not required. The math coprocessor will greatly reduce the execution time of the program (increases computational speed by a factor of 5 to 10).

#### I. PROGRAM INSTALLATION

#### A. Contents of the HECWRC Diskette

The HECWRC computer program, example input data, and example output are provided on a 5 1/4 inch double-sided 360 KB floppy diskette as follows:

HECWRC DISKETTE: HECWRC.EXE

HECWRC.DAT HECWRC.OUT README.DOC

Explanation of Files Included on the HECWRC Package Diskette

HECWRC.EXE: The HECWRC program in an executable form.

HECWRC.DAT: HECWRC example input data.

HECWRC.OUT: example output file of example input data.

README.DOC: file containing this implementation guide.

#### B. Installation on a Hard Disk System

The following set of instructions will allow the user to run the HECWRC program from any of the user's data directories.

- 1. You will need to create three directories. One of the directories should be labeled \HECEXE. This directory will be used to store all of the HEC executable programs. A second directory should be labeled \HECEXE\SUP. This directory will be used to store all of the supplemental files required by the executable programs. A third directory should be created to store data files. This data directory can be given any name. As shown in Figure 1, you may want this data directory to represent a specific project, person, or program. For this example, let's assume that you are going to label the data directory \HECWRC. To accomplish these tasks do the following:
  - \* Go to the drive (e.g. C:) in which you would like to install the software.
  - \* Type MD\HECWRC then press the <ENTER> key.
  - \* Type MD\HECEXE then press the <ENTER> key.
  - \* Type MD\HECEXE\SUP then press the <ENTER> key.

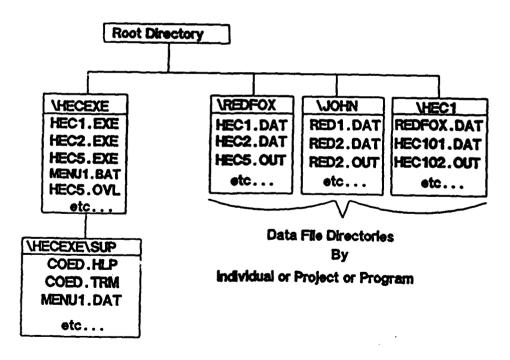


Figure 1. Recommended HEC Programs and Data Directories Configuration

- 2. Place the HECWRC diskette into the A drive.
- 3. The next step will be to copy the HECWRC input and output files. If you do not want these files copied to your hard disk, go to step 4. If you would like these files copied to your hard disk, do the following:
  - \* Type CD HECWRC then press the <ENTER> key.
  - \* Type COPY A:\*.DAT C: then press the <ENTER> key.
  - \* Type COPY A:\*.OUT C: then press the <ENTER> key.
- 4. The next step will be to copy the HECWRC program. The file is named HECWRC.EXE. Use the following commands to do so:
  - \* Type CD \HECEXE then press the <ENTER> key.
  - \* Type COPY A:\*.EXE C: then press the <ENTER> key.
  - \* Type CD \ then press the <ENTER> key.
- 5. To allow access of the executable programs from any directory, it will be necessary to edit the AUTOEXEC.BAT file to include a path to the \HECEXE directory. The AUTOEXEC.BAT file should be in your root (C:\) directory. The following is an example PATH command that would allow access to the \HECEXE directory as well as the root (C:\) directory:

#### PATH C:\;C:\HECEXE

You may want to include a path to other directories on your system. If so, just add the names of the directories to this command. For more information on the PATH command and the AUTOEXEC.BAT file, consult your DOS manual.

6. The final step will be to modify your CONFIG.SYS file. Many HEC programs require the capability to open more than eight (8) files at any one time. Because eight is the system default, you will need to modify your CONFIG.SYS file to include the following two lines:

#### FILES=20 BUFFERS=20

For more information concerning the CONFIG.SYS file, consult your DOS manual.

#### C. Installation on a Two-Floppy-Diskette System

There is no installation for a two-floppy diskette system.

#### II. PROGRAM EXECUTION

- A. To run HECWRC from the hard disk do the following commands:
  - \* Go to the directory in which your data are stored (e.g. \HECWRC).
  - \* Type HECWRC then press the <ENTER> key.

The program then will prompt you for input filename, output filename, etc.

- B. To run HECWRC from a floppy diskette do the following commands:
  - \* Place the diskette containing the HECWRC program on it in drive A
  - \* Type A:HECWRC then press the <ENTER> key.

The program then will prompt you for input filename, output filename, etc.

#### III. PROGRAM VERIFICATION

Using the above example, you can execute the HECWRC program by using the example data file provided to you. At this point you should compare your output file (HECWRC.ANS, for example) with the one provided to you (HECWRC.OUT). Comparing the two output files can be accomplished by using the DOS compare command (COMP). Check your results to insure that they are the same, except for execution date and time and output filename, as what we provided to you. This will insure that the program is working correctly on your computer system.

#### IV. PROGRAM PROBLEMS

If any errors are encountered which indicate potential problems in this HECWRC package, please contact the HEC.

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